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=> d que
L2                SCR 353 AND 2005 AND 1992
L36               STR
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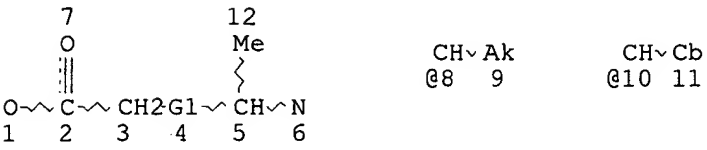


Claim 1

where:
R2 = H
R3 = Me
R4 = Anything
R1 = Alkyl or Carbocycle.

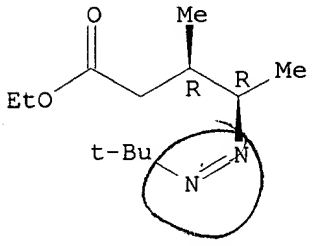
```
VAR G1=8/10
NODE ATTRIBUTES:
CONNECT IS E2  RC AT   6
CONNECT IS E1  RC AT   9
CONNECT IS E1  RC AT  11
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY  AT  11
DEFAULT ECLEVEL IS LIMITED
ECOUNT  IS X6 C  AT  11

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  12

STEREO ATTRIBUTES: NONE
L37           5 SEA FILE=REGISTRY SSS FUL L2 AND L36
L38           5 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L37
```

L38 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2002 ACS
AN 1995:875656 HCAPLUS
DN 124:86024
TI Conjugate addition reactions of .alpha.-azoalkylcuprate reagents
AU Alexander, Christopher W.; Lin, Shou-Yuan; Dieter, R. Karl
CS H.L. Hunter Laboratory, Department of Chemistry, Clemson University, Clemson, SC, 29634-1905, USA
SO J. Organomet. Chem. (1995), 503(2), 213-20
CODEN: JORCAI; ISSN: 0022-328X
DT Journal
LA English
OS CASREACT 124:86024
AB A new class of .alpha.-heteroatomalkyl organocuprate/organocopper reagents has been prepd. These .alpha.-azoalkyl cuprate reagents were derived from .alpha.-azoalkyl anions and were treated with enones and enoates affording .gamma.-azoalkyl carbonyl compds. in modest yields.
IT **172747-92-1P 172747-96-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(conjugate addn. reactions of .alpha.-azoalkylcuprate reagents)
RN 172747-92-1 HCAPLUS
CN Pentanoic acid, 4-[(1,1-dimethylethyl)azo]-3-methyl-, ethyl ester, (R*,R*)- (9CI) (CA INDEX NAME)

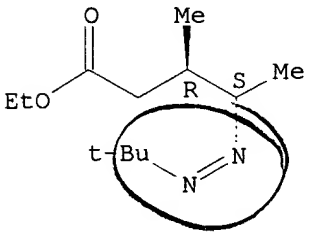
Relative stereochemistry.
Double bond geometry unknown.



R4 = Et
R1 = Me
N not in N !

RN 172747-96-5 HCAPLUS
CN Pentanoic acid, 4-[(1,1-dimethylethyl)azo]-3-methyl-, ethyl ester, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



Me

L38 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2002 ACS
AN 1985:203445 HCAPLUS
DN 102:203445
TI Mechanism of the electroreduction of aliphatic nitro compounds.

Preparation of N-hydroxypyrrolidinones by reduction of .gamma.-nitro esters

AU Cariou, Michel; Hazard, Roland; Jubault, Michel; Tallec, Andre

CS Lab. Electrochim., Univ. Rennes, Rennes, 35042, Fr.

SO J. Electroanal. Chem. Interfacial Electrochem. (1985), 182(2), 345-54
CODEN: JEIEBC; ISSN: 0022-0728

DT Journal

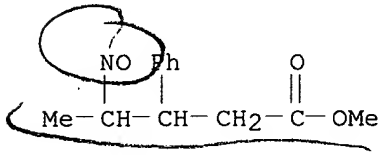
LA English

AB N-Hydroxypyrrolidinones are prepd. by electroredn. of .gamma.-nitro esters in very acidic or weakly basic media. In weakly acidic media, nonelectroactive oximes are obtained simultaneously with the expected heterocycles. From exptl. observations, a general scheme is proposed for the redn. of an aliph. nitro group; the formation at the cathode of a two-electron intermediate, different from the nitroso compd., is taken into account.

IT **96450-99-6**
RL: PRP (Properties)
(intermediacy of, in electroredn. of parent nitro compd.)

RN 96450-99-6 HCAPLUS

CN Benzenepropanoic acid, .beta.-(1-nitrosoethyl)-, methyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2002 ACS

AN 1980:198264 HCAPLUS

DN 92:198264

TI 3-Pyrrolin-2-ones and pyrrolidin-2-ones derived from them

IN Hofer, Peter

PA Mundipharma A.-G., Switz.

SO Belg., 23 pp.
CODEN: BEXXAL

DT Patent

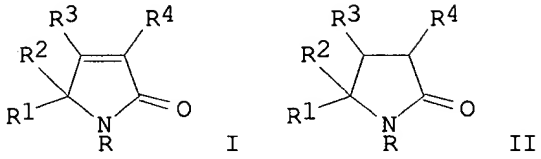
LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 876900	A1	19791001	BE 1979-195678	19790611
	IL 57266	A1	19821231	IL 1979-57266	19790514
	JP 54163568	A2	19791226	JP 1979-65082	19790528
	JP 63043387	B4	19880830		
	AT 7903866	A	19831215	AT 1979-3866	19790528
	AU 7947670	A1	19791220	AU 1979-47670	19790601
	AU 529479	B2	19830609		
	ES 481315	A1	19800816	ES 1979-481315	19790606
	CA 1108628	A1	19810908	CA 1979-329322	19790608
	DE 2923553	A1	19791220	DE 1979-2923553	19790609
	DE 2923553	C2	19880601		
	DE 2954236	C2	19881006	DE 1979-2954236	19790609
	DE 2954237	C2	19890921	DE 1979-2954237	19790609
	DK 7902417	A	19791213	DK 1979-2417	19790611
	DK 157847	B	19900226		

	DK 157847	C	19900917		
	NO 7901943	A	19791213	NO 1979-1943	19790611
	SE 7905079	A	19791213	SE 1979-5079	19790611
	SE 431644	B	19840220		
	SE 431644	C	19840530		
	GB 2028307	A	19800305	GB 1979-20275	19790611
	GB 2028307	B2	19830119		
	FR 2434151	A1	19800321	FR 1979-14907	19790611
	FR 2434151	B1	19820430		
	FI 7901866	A	19791213	FI 1979-1866	19790612
	FI 70209	B	19860228		
	FI 70209	C	19860912		
	NL 7904584	A	19791214	NL 1979-4584	19790612
	ZA 7902895	A	19821124	ZA 1979-2895	19790612
	CH 650772	A	19850815	CH 1979-5496	19790612
	US 4443616	A	19840417	US 1981-256169	19810421
PRAI	US 1978-914682		19780612		
	US 1979-12496		19790215		

GI



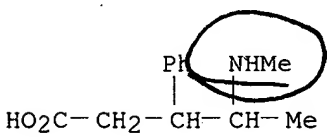
I II

AB Amides R3COCR1R2NRCOCH2R4 [R = H, (un)substituted alkyl, (un)substituted aryl, acyl, aroyl; R1 = H, (un)substituted alkyl, (un)substituted aryl; R2 = H, (un)substituted alkyl; R3 = (un)substituted aryl, (un)substituted alkyl; R4 = H, (un)substituted alkyl, (un)substituted aryl] were heated with KOCMe3 to give the resp. pyrrolinones I, and I were hydrogenated to pyrrolidinones II. A soln. of PhCOCH2NHCOCH2Ph in Me3COH was added to a heated soln. of KOCMe3 in Me3COH and the mixt. was refluxed 40 min and worked up to yield I (R = R1 = R2 = H, R3 = R4 = Ph).

IT **73082-04-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 73082-04-9 HCAPLUS

CN Benzenepropanoic acid, .beta.-[1-(methylamino)ethyl]-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

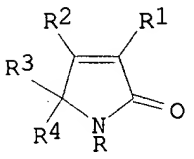
R4=H
R1=Ph
R2=H
R3=Me
P=H
Q=Me

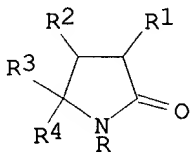
methyl group from amide.

L38 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2002 ACS
AN 1980:128712 HCAPLUS
DN 92:128712
TI Pyrrolidin-2-ones from 3-pyrrolin-2-ones, and manufacture of the latter
PA Mundipharma A.-G., Switz.
SO Belg., 23 pp.
CODEN: BEXXAL
DT Patent
LA French
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI BE 876900		19791001		
PRAI US 1978-914682		19780612		

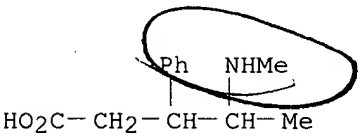
GI


I


II

AB Pyrrolinones I (R = H, alkyl, aryl, acyl, aroyl; R1 = H, alkyl, aryl; R2 = alkyl, aryl; R3 = H, alkyl, aryl; R4 = H, alkyl, aryl) were hydrogenated to the resp. II, useful as central nervous system drugs (no data). Thus, PhCOCH2NHCOCH2Ph was heated with KOCMe3 to yield I (R = R3 = R4 = H, R1 = R2 = Ph), and hydrogenation of the product over Pd/C gave II (R = R3 = R4 = H, R1 = R2 = Ph).

IT **73082-04-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 73082-04-9 HCAPLUS
CN Benzenepropanoic acid, .beta.-[1-(methylamino)ethyl]-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

L38 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2002 ACS
AN 1968:68440 HCAPLUS
DN 68:68440
TI Free-radical addition of N-acetylamines to unsaturated compounds
AU Nikishin, G. I.; Mustafaev, R. I.; Gramenitskaya, V. N.

CS Inst. Org. Khim. im. Zelinskogo, Moscow, USSR
SO Izv. Akad. Nauk SSSR, Ser. Khim. (1967), (9), 2056-61
CODEN: IASKA6
DT Journal
LA Russian
GI For diagram(s), see printed CA Issue.
AB Free radical addn. of N-acetylamines to unsatd. compds. was reported as a synthetic route to amines with functional groups. The tendency to form 1:1 adducts increased with electrophilicity of the double bond of the reactant. To the acetylamine was added over 6 hrs. at 155-60.degree. a soln. of the appropriate unsatd. compd. C5H11CH:CH2, CH2:CHCH2OH, its acetate, CH2:CMeCO2Me, CH2:CHCO2Me, CH2:CMeCH2OAc, CH2:CHOAc, CH2:CHO2CPr, MeCH:CHCO2Me and RO2CCH:CHCO2R (R = Me or Et); after 1 hr. at this temp. the mixt. was distd. yielding: AcNHCHMe(CH2)3OAc, b0.5 120-1.degree., n20D 1.4543, d20 1.0311; AcNHCHMeCH2CHMeCH2OAc, b1.5 137-8.degree., 1.4553, 1.0122; AcNHCHMe(CH2)2OAc, b0.5 108-9.degree., 1.4515, 1.0487; AcNHCHMe(CH2)2O2CPr, b0.5 123-4.degree., 1.4527, 1.0096; AcNHCHMeCHMeCH2CO2Et, b0.5 110-11.degree., 1.4575, 1.0189. The following I were prepd. (R, b.p., n20D, and d20 given): C7H15, b2 126-7.degree., 1.4700, 0.9270; (CH2)3OH, b1 144-7.degree., m. 62.5-3.degree.; (CH2)2OAc, b0.5 113-15.degree., 1.4770, 1.0936; (CH2)2CO2Me, b0.5 112-13.degree., 1.4848, 1.0923. Also prepd. was II, b2 135-7.degree., n20D 1.4818, d20 1.0849. Hydrolysis of I and II with KOH gave 2-(.beta.-hydroxyethyl)pyrrolidine, b2.5 57-8.degree., n20D 1.4846, d20 1.0117, and 2-(.beta.-hydroxyethyl)piperidine (III), b3 86-7.degree., m. 38-9.degree.. III formed also by hydrogenation of 2-(.beta.-hydroxyethyl)pyridine.
IT **19432-82-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 19432-82-7 HCAPLUS
CN Valeric acid, 4-acetamido-3-methyl-, ethyl ester (8CI) (CA INDEX NAME)